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Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. TRANSMITTAL LETTER TO THE UNITED STATES

ATTTORNEY'S DOCKET NUMBER AAT-109US

	DESIGNATED/ELECTED  CONCERNING A SUBMISSIO	U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/592,023					
	INTERNATIONAL APPLICATION NO. PCT/GB05/00924	INTERNATIONAL FILING DATE 10 March 2005 (10.03.2005)	PRIORITY DATE CLAIMED 10 March 2004 (10.03.2004)				
	TITLE OF INVENTION FAST FOURIER TRANSFOR		IPLING RATE IN DIGITAL RADIO MODIALE (DRM)				
	APPLICANT(S) FOR DO/EO/US Stewart John	Hamish Bell et al.					
	Applicant herewith submits to the United Sta	nt herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
	This is a FIRST submission of items con	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.					
	2. This is a SECOND or SUBSEQUENT s	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.					
	3. This is an express request to begin nation (5), (6), (9) and (21) indicated below.	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.					
	4. The US has been elected (Article 31).						
	5. A copy of the International Application	n as filed (35 U.S.C. 371(c)(2))					
	a. is attached hereto (required	only if not communicated by the Internation	al Bureau).				
	b. has been communicated by						
		c. is not required, as the application was filed in the United States Receiving Office (RO/US).					
	6. An English language translation of the	e International Application as filed (35 U.S.C	: 371(c)(2)).				
	a. Li is attached hereto.						
b. has been previously submitted under 35 U.S.C. 154(d)(4).			05.11.0.0. 974/->/9\)				
	l · —	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  a. are attached hereto (required only if not communicated by the International Bureau).  b. have been communicated by the International Bureau.					
	<b>i</b> — .						
		ever, the time limit for making such amendm	nents has NOT expired.				
	d. have not been made and v						
		e amendments to the claims under PCT Art	icle 19 (35 U.S.C. 371(c)(3)).				
	9. An oath or declaration of the inventor						
	10. An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the International Preliminary E	xamination Report under PCT				
	Items 11 to 20 below concern document(s) or information included:						
	11. An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.					
	12. An assignment document for recordin	g. A separate cover sheet in compliance wi	th 37 CFR 3.28 and 3.31 is included.				
	13. A preliminary amendment.						
	14. An Application Data Sheet under 37 0	An Application Data Sheet under 37 CFR 1.76.					
	15. A substitute specification.	A substitute specification.					
	] '	A power of attorney and/or change of address letter.					
		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.					
	<u> </u>	national Application under 35 U.S.C. 154(d)(					
		TO A CALL THE ACTION AND A CALL THE ACTION A					
	20. Calci italia di midinatani		obtain or retain a benefit by the public, which is to file (and by				

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 2

PTO-1390 (Rev. 07-2005)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. 10/592,023 PCT/GB05/00924		ATTORNEY'S DOCKET NUMBER  AAT-109US			
	The following	fees have been submitted			CALCULATIONS	PTO USE ONLY
	•	onal fee (37 CFR 1.492(a))		\$300	\$	<del></del>
	22. Examination fee (37 CFR 1.492(c))  If the written opinion prepared by ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0  All other situations			\$		
23. Search fee (37 CFR 1.492(b))  If the written opinion prepared by ISA/US or the Inter by IPEA/US indicates all claims satisfy provisions Search fee (37 CFR 1.44(a)(2)) has been paid on the an International Searching Authority  International Search Report prepared by an ISA othe previously communicated to the US by the IB All other situations			PCT Article 33(1)-(4) nternational application to the	Article 33(1)-(4) \$0  Intional application to the USPTO as  Intional application to the USPTO as		
	TOTAL OF 21, 22 and 23 =				\$	
	Additional fee for s sequence listing o The fee is \$250 fo Total Sheets Ex	pecification and drawings filed in r computer program listing filed in r each additional 50 sheets of pa tra Sheets Number of each a thereof (round up	n an electronic medium).	RATE	\$	
	- 100 =	/50 = or furnishing the oath or declaration	on later than 30 months from	x \$250		
	claimed priority date (37	' CFR 1.492(e)).	orriater than 50 months non	The camest	\$ 130	
- 1	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
- 1	Total claims	- 20 =		× \$ 50	\$	
- 1	Independent claims	- 3 =		× \$200	\$	
- 1	MULTIPLE DEPENDE	NT CLAIM(S) (if applicable)		+ \$360	\$	
ł			TOTAL OF ABOVE	CALCULATIONS =	\$	
1	Applicant claims s	mall entity status. See 37 CFR 1.	.27. Fees above are reduce	d by ½.		
- 1				SUBTOTAL =	\$	
	Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).			\$		
- [			TOTAL	NATIONAL FEE =	\$ 130	
	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			\$		
İ			TOTAL FE	ES ENCLOSED =	\$ 130	
1/24/20	2007 GFREY1 00000115 10592023				Amount to be refunded:	\$
1 FC:16		130.00 OP			Amount to be charged:	\$ 130
- 1	a. A check in th	e amount of \$	to cover the abov	e fees is enclosed.		
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees.  A duplicate copy of this sheet is enclosed.						
c. The Commissioner is hereby authorized to charge any additional fees which Account No. <u>18-0350</u> . A duplicate copy of this sheet is enclosed.				ch may be required,	or credit any overpaymo	ent to Deposit t
:	d. Fees are to be be included	e charged to a credit card. WAR on this form. Provide credit card	NING: Information on this fo	rm may become pub on on PTO-2038.	olic. Credit card inform	ation should not
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to re and granted to restore the International Application to pending status.				a petition to revive	(37 CFR 1.137(a) or (b	o)) must be filed
SEND ALL CORRESPONDENCE TO:  Customer Number 52473 —			1.1	///		
			1	SIGNATORE	va,	
		OR	•	Kenneth N. Ni	aon /	
	Ratner Prestia, P	.O. Box 980, Valley Forge, PA 1	9482	NAME		
			31,549			
		ust 21, 2007		REGISTRATIO	ON NUMBER	
	Date : Augi			.,_0,0110111		

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No:

10/592,023

Applicant:

Stewart John Hamish Bell et al.

Filed:

September 7, 2006

Title:

FAST FOURIER TRANSFORMATION (FFT) WITH ADAPTION OF THE SAMPLING RATE IN DIGITAL RADIO MONDIALE (DRM) RECEIVERS

TC/A.U.:

2616

Examiner:

Not Yet Assigned

## **RESPONSE TO NOTICE TO FILE** MISSING REQUIREMENTS OF U.S. NATIONAL PHASE APPLICATION

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Responsive to the Notice dated May 8, 2007, enclosed is the Declaration/Power of Attorney in compliance with 37 C.F.R. § 1.63. Also enclosed are a copy of the Notice and Credit Card Payment (PTO-2038) for \$130.00 to cover the required surcharge fee.

Respectfully submitted,

Kenneth N. Nigon, Reg. 31,549 Attorney(s) for Applicant(s)

KNN/pb

Enclosures: Declaration/Power of Attorney

Transmittal Form Copy of Notice PTO-2038

Dated: August 21, 2007

P.O. Box 980

Valley Forge, PA 19482-0980

(610) 407-0700

The Director is hereby authorized to charge or credit Deposit Account No. 18-0350 for any additional fees, or any underpayment or credit for overpayment in connection herewith.

**EXPRESS MAIL** 

Mailing Label Number:

EV 811 783 115 US

Date of Deposit:

August 21, 2007

I hereby certify that this paper and fee are being deposited, under 37 C.F.R. § 1.10 and with sufficient postage, using the "Express Mail Post Office to Addressee" service of the United States Postal Service on the date indicated above and that the deposit is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dennis McDermott



## United States Patent and Trademark Office

AT-109US

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

U.S. APPLICATION NUMBER	NO. FIRST NAMED APPLICANT	TTA	ATTY. DOCKET NO.	
10/592,023	Stewart John Hamish Bel	l A	AT-109US	
	RECEIVED	INTERNATIONAL AP	PLICATION NO.	
		PCT/GB05/00924		
52473	MAY 1 0 2007	I.A. FILING DATE	PRIORITY DATE	
RATNERPRESTIA P.O. BOX 980	Datmontonation	03/10/2005	03/10/2004	

CONFIRMATION NO. 9374

(2mos) 0000000023744466°

VALLEY FORGE, PA 19482

Date Mailed: 05/08/2007

# NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 09/07/2006
- Copy of the International Search Report filed on 09/07/2006
- Preliminary Amendments filed on 09/07/2006
- Information Disclosure Statements filed on 09/07/2006
- Request for Immediate Examination filed on 09/07/2006
- U.S. Basic National Fees filed on 09/07/2006
- Priority Documents filed on 09/07/2006
- Specification filed on 09/07/2006
- Claims filed on 09/07/2006
- Abstracts filed on 09/07/2006
- Drawings filed on 09/07/2006

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

• \$130 Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. <a href="https://sportal.uspto.gov/authenticate/Authenticate/Authenticate/SerLocalEPF.html">https://sportal.uspto.gov/authenticate/Authenticate/SerLocalEPF.html</a>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <a href="http://www.uspto.gov/ebc.">http://www.uspto.gov/ebc.</a>

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

#### **DEBORAH D WILLIAMS**

Telephone: (703) 308-9140 EXT 205

### PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/592,023	PCT/GB05/00924	AAT-109US

FORM PCT/DO/EO/905 (371 Formalities Notice)

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)  Docket No.					
Applicant(s): [					
Filing Date	Examiner	Group Art Unit			
September 7, 2006					
ER TRANSFORMATION(FFT ALE (DRM) RECEIVERS	) WITH ADAPTION OF TH	HE SAMPLING RATE IN			
I hereby certify that the following correspondence:					
1390 transmittal; Formalities Letter; PTO-2038; Response to Notice of Missing Requirement; Declaration and Power of Attorney					
(Identify type o	f correspondence)				
Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on August 21, 2007  Dennis McDermott  (Typed or Printed Name of Person Mailing Correspondence)  (Signature of Person Mailing Correspondence)					
	EV 811 783 115 US ("Express Mail"	" Mailing Label Number)			
Note: Each paper must have its own certificate of mailing.					
	Filing Date September 7, 2006  ER TRANSFORMATION(FFT ALE (DRM) RECEIVERS  collowing correspondence: alities Letter; PTO-2038; Reservice addressed to: s, P.O. Box 1450, Alexandria, V.	Filing Date September 7, 2006  ER TRANSFORMATION(FFT) WITH ADAPTION OF TRALE (DRM) RECEIVERS  Dillowing correspondence:  alities Letter; PTO-2038; Response to Notice of Missing the United States Postal Service "Express Mail Post Office to addressed to:  s, P.O. Box 1450, Alexandria, VA 22313-1450  Dennis McDermott (Typed or Printed Name of Company of Printed Name of Personal Company			